

09/30/38

METHOD AND SYSTEM FOR ENSURING ROBUSTNESS IN NATURAL
LANGUAGE UNDERSTANDING

ABSTRACT OF THE DISCLOSURE

5 A method and system, which may be implemented by
employing a program storage device readable by machine, and
tangibly embodying a program of instructions executable by
the machine to perform method steps for ensuring robustness
of a natural language understanding (NLU) system, includes
10 tagging recognized words of a command input to the NLU
system to associate the command with a context, and
translating the command to at least one formal command based
on the tagged words. A top ranked formal command is
determined based on scoring of the tagged recognized words
15 and scoring translations of the at least one formal command.
Whether the top ranked formal command is accepted is
determined by comparing a feature vector of the top ranked
formal command to representations of feature vectors stored
in an accept model. The top ranked formal command is
20 executed if accepted and incorrect commands are prevented
from execution to provide a robust NLU system.